# TERRA

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NATURAL HISTORY MUSEUM OF
LOS ANGELES COUNTY



**CALENDAR OF EVENTS INSIDE!**

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# THE TONGASS
## Alaska's Magnificent Rain Forest

ALTHOUGH VERY FEW AMERICANS even know of its existence, the Tongass—with its 17 million acres (7 million hectares)—is by far the largest of the U.S. national forests.

A part of the largest nonequatorial rain forest in the world, the Tongass encompasses most of the panhandle of the Alaskan mainland as well as the Alexander Archipelago, a group of 1,000 mountainous islands off the coast of British Columbia. The rain forest lies at the feet of a high coastal mountain range and contains a variety of wildlife settings, including almost 11,000 miles (17,700 kilometers) of shoreline, intricate matrices of tidal flats and wetlands, enormous stands of old-growth forest, and an ice mass—the Malaspina Glacier—that is larger than the state of Rhode Island.

Author and artist Robert Glenn Ketchum is curator of a photographic exhibition on this beautiful region that is now appearing at the Museum of Natural History in Exposition Park. "When most people think of Alaska, they think of the interior—places that are commonly called tundra, vast landscapes with limited vegetation. The Tongass, however, is teeming with plant and animal life. The dynamics there rival those to be found in tropical rain forests of the world."

Indeed, although rain forests in the tropics have a greater diversity of species, the Tongass has five to eight times their biomass. It is believed to contain the highest concentration of living organisms per square foot of any area on earth.

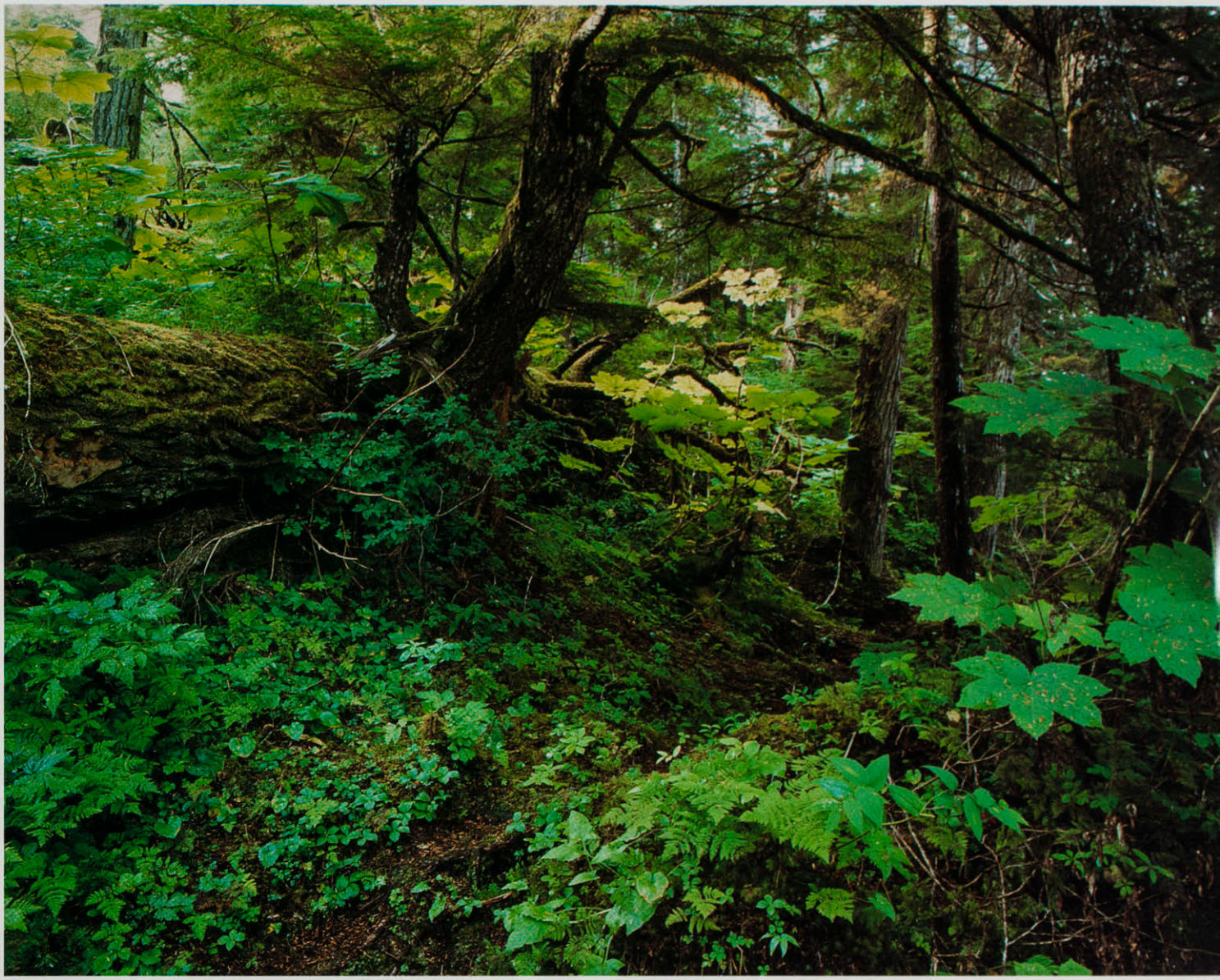
The Tongass lives up to the designation "rain forest." The average rainfall in some parts of Southeast, as this area is known to Alaskan residents, is 200 inches (500 centimeters). The excessive precipitation feeds the Tongass rivers and adds to the icefields at higher elevations. And it supports the flora of the most extensive single concentration of virgin forest left in existence.





The rain forest's old-growth stands—which are between 3,000 and 5,000 years old—consist primarily of hemlocks, cedars, and Sitka spruce. Because it has been essentially undisturbed for centuries, the forest has reached full maturity; it includes trees of all ages and, in its understory, a profusion of vines, mosses, ferns, and lichens punctuated with devil's club, a spiny shrub with broad, flat, lobed leaves of bright green.

The sheltering effects of the canopy and the abundance of forage below provide a lush environment for a myriad of mammals, including deer, mink, shrews, and marten and—in pockets—foxes, lynx, porcupines, beavers, moose, and mountain goats. The rain forest's largest residents are bears, and it has North America's highest concentration of grizzlies. In all, the Tongass is home to at least 83 species of mammals, 57 species



of fish and shellfish, and 303 species of birds, including an important population of bald eagles.

In his book *The Tongass: Alaska's Vanishing Rain Forest* (Aperture, 1994), Ketchum summarized his goals in exploring Southeast—in terms that apply to the exhibition as well as the book:

> With pictures and words, we are trying to explain a complex and unique niche on this planet. . . . This forest was already well established when the Pilgrims were landing at Plymouth Rock. Its beauty rivals that of any place on earth. This is a national treasure. . . .
>
> Small populations of humans squeeze out a living here as they have done for centuries, their villages and cities clinging to strips of land between the mountains and the edge of the ocean. They share the area's bounty and splendor with millions of plants, animals, and fish. But as the presence of man increases and his demands go unchecked, the impact is forever changing the face of the Tongass. The time is at hand when we must decide what value this complex ecosystem has and weigh its worth against the other economic pressures that now confront all of Alaska.

*The exhibition, The Tongass: Alaska's Vanishing Rain Forest, is on view in the Rotunda of the Exposition Park museum through March 31.*

ABOVE
**Bear trail in old growth. Copyright 1987, Robert Glenn Ketchum.**

OPPOSITE, TOP
**Bald Eagle. Copyright 1992, Art Wolfe.**

OPPOSITE BOTTOM
**Mendenhall Lake. Copyright 1986, Robert Glenn Ketchum.**

COVER
**Black bears. Copyright 1992, Art Wolfe.**

# GIANT SILK MOTHS

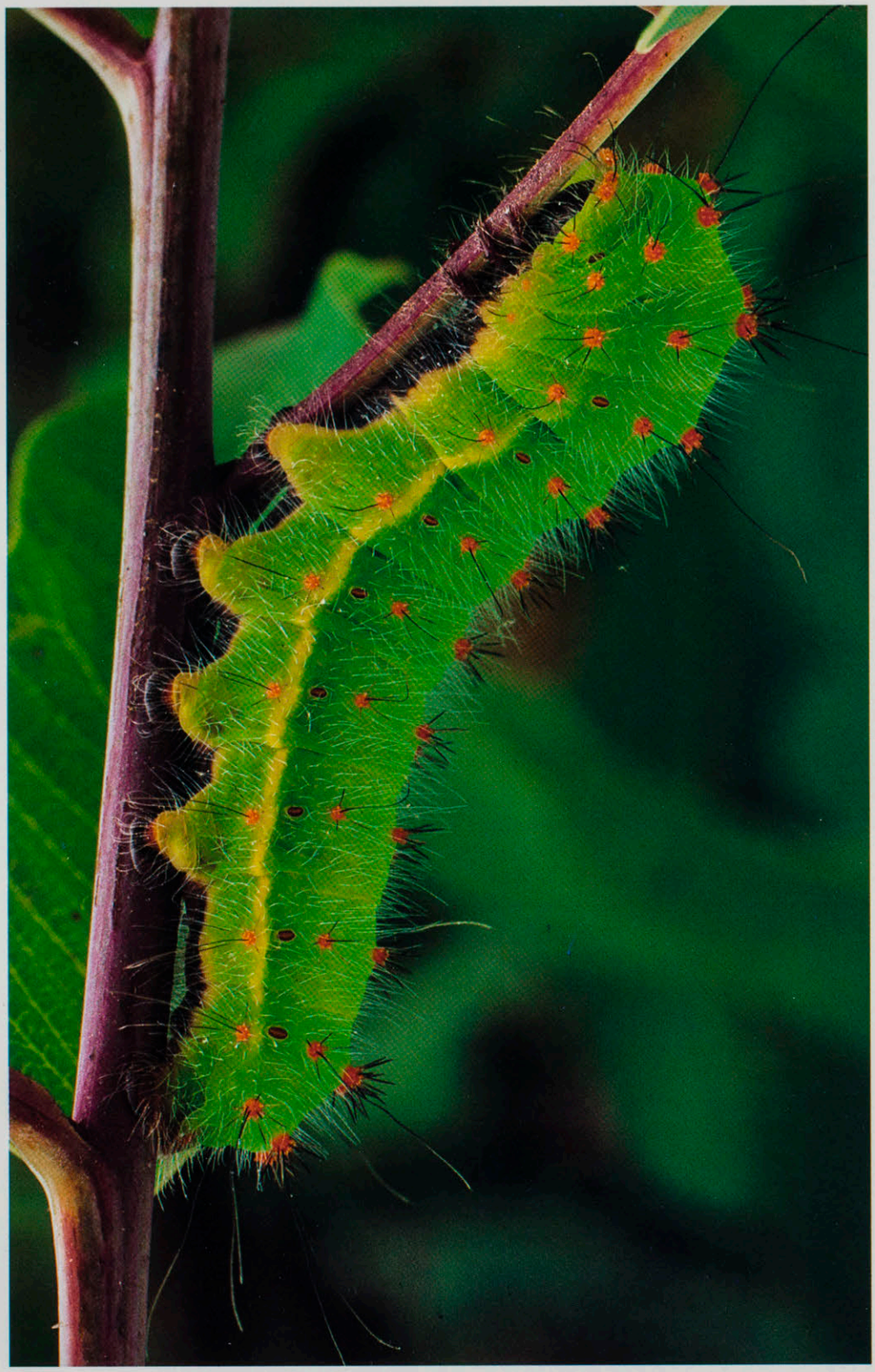
AT NIGHT IN A TROPICAL RAIN forest, strange things can happen. Your head lantern creates eerie, moving shadows that distort the landscape. Occasionally an insect will fly into the lantern to be projected in enormous silhouette on the nearby trees.

The most startling visitors to my head lantern have been giant silk moths. These bat-sized insects can appear from nowhere, their wings flapping audibly; more than once, I have jumped in alarm at the sound, and at the sensation of one brushing past my ears in the dark.

These nocturnal apparitions are the passion of Entomology Research Associate Kirby Wolfe, a scientist who has captured some of the mystery and beauty of the giant silk moths in his photographs. Concentrating his efforts in the New World tropics, where the world's greatest diversity of the moths is found, he has sought these insects in Central America, Mexico, Colombia, Ecuador, and Chile. While not without risks (he was once captured by guerrillas in Guatemala), his journeys have been rich in the rewards of discovery. Wolfe has chronicled the life histories and immature stages of many known silk moths and has described a number of new species.

Giant silk moths belong to the family Saturniidae, a group that includes about 1,300 species and some of the world's largest moths: the hercules moth of Australia has a wingspan of up to 12 inches (30 centimeters), and in North America the polyphemus, luna, cecropia, and ceanothus silk moths are all among the biggest night-flying insects in their ranges. There are small species, but in general saturniids live up to the title of "giant."

Saturniids are not only big, they are also beautiful. With colors ranging from intense browns to pale greens and bright oranges, their wings are accented with bright eyespots that presumably startle predators seeking a meal. Some species







have incredibly elongate hind wings that trail behind them in flight and have earned them common names like "Tailed Comet." For all their beauty, the lifespan of the moths is short; because they lack mouthparts, they do not feed and will live only a few days, long enough to mate and produce the eggs carrying the next generation.

The caterpillars that emerge from the eggs do feed. In this immature stage, many are as striking as the adults, with bright color patterns and feathery and spiny projections that, although dramatic, nevertheless serve as camouflage. Caterpillars of some species have poisonous bristles and have been responsible for the deaths of people unfortunate enough to have brushed against a large number of them at once.

To obtain photographs, Wolfe captures a female that is attracted to light and places it inside a plain paper bag, where over the next day or so it will usually lay eggs. Once these hatch, Wolfe rears the resulting caterpillars on their preferred food plant, photographing them at various stages of growth. When their feeding is finished, the caterpillars metamorphose into pupae, the life stage in which the body tissues are reorganized to form the adult moth.

Near the end of the metamorphosis, the pupa elongates and the wings of the moth inside become shiny. Then the adult emerges, pumping its veins full of its blood and slowly spreading its wings. It is at this point that Wolfe photographs the moth: with perfect, unruffled wings and unscarred body, it is in the prime of its short life.

Dr. Brian V. Brown
Assistant Curator of Entomology



Opposite
**Caterpillar of *Saturnia walterorum*, a rare day-flying moth of southern California's coastal chaparral. Photograph by Kirby Wolfe.**

Above
**Male of *Automeris macphaili*, found in Mexico and Guatemala. Photograph by Kirby Wolfe.**

Above, right
**Eggs of *Saturnia walterorum* on Laurel Sumac, the moth's host plant. Photograph by Kirby Wolfe.**

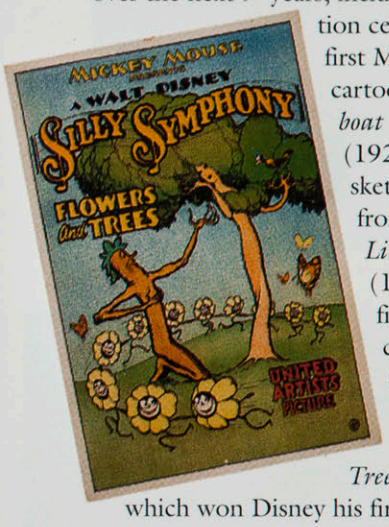
Left
**Kirby Wolfe at work in Colombia, 1995. Photograph by Stacie Smoot Wolfe.**

*An exhibition of Kirby Wolfe's photographs is on view at the Museum of Natural History in Exposition Park through June 1996.*

# THE WALT DISNEY COLLECTION



In 1931, a far-sighted mechanical sciences curator, Earl Theisen, approached animator and studio chief Walt Disney requesting materials for a motion picture hall he was developing for the Los Angeles County Museum in Exposition Park. Disney generously made a number of donations over the next 9 years, including animation cels from the first Mickey Mouse cartoon, *Steamboat Willie* (1928), as well as sketches and cels from *The Three Little Pigs* (1933) and the first Technicolor Silly Symphony cartoon, *Flowers and Trees* (1932), which won Disney his first Oscar. These items, along with photographs of the Disney Studio on Hyperion Avenue in the Silverlake district, today reside in the Natural History Museum's Seaver Center for Western History Research.




Perhaps the most unusual piece that Disney donated is the animation camera and stand that he used during his first years in Los Angeles. He constructed the camera stand in fall 1923, working in his Uncle Robert's garage and reputedly using scrap lumber from packing crates. The stand was outfitted with a Pathe camera purchased for $200 from Peterson's Camera Exchange at 4th and Broadway in Los Angeles. Although the stand was altered over the years as finances improved and technology advanced, the original camera remained.

The apparatus was designed for showing action by photographing drawings of the successive positions in a character's movements against a painting of the background. The camera was mounted high in the center of the device with the lens pointing down. The background painting was secured under the camera, and the operator used the knobs on the front of the table to move a piece of celluloid with the drawings of progressive stages in the action across the background sketch; the tracks on the table guided the celluloid and kept it straight. The operator centered each action sketch under the camera, using the foot lever to clamp the celluloid between two glass plates and hold it steady. He then shot the fragments of movement, sketch by sketch by sketch. Animation was—and still is—a lengthy and expensive process.

When Disney gave the animation table to the museum in 1938, he told the staff that it had been used in several Mickey Mouse cartoons, including *Plane Crazy* (1928), inspired by Charles Lindbergh's flight from New York to Paris, and *Steamboat Willie*, which was not only Mickey's debut but also the first cartoon incorporating sound.

The Disney animation stand, normally on display in the museum's Lando History Hall, California and the Southwest: 1540-1940, was loaned to the Gene Autry Museum of Western Heritage in the summer of 1995. It appeared in the Autry's special exhibition, Walt Disney's Wild West, which focused on the Disney company's role in shaping and spreading the history of the West through its depiction of Western heroes and themes in live-action and animated films and theme parks. This exhibition closed on September 17, and the animation stand is now again on display at the Museum of Natural History in Exposition Park as part of our permanent exhibit on the role of the film industry in California's history.



Beth Werling
History Collections Manager

Top

**Walt Disney's animation stand, built in 1923 and used in some of the earliest Mickey Mouse cartoons. Natural History Museum of Los Angeles County, gift of Walt Disney, 1938, A. 2503-74,75; Seaver Center for Western History Research, Photograph GPF 8954, by Dan Watson.**

Top left

**A poster for *Flowers and Trees* (1932), the first technicolor cartoon and the first recipient of the Academy Award for an animated production. Natural History Museum of Los Angeles County, gift of Walt Disney, 1932, A.2503-20; Seaver Center for Western History Research, Photograph GPF 8952.**

Left

**The multiplane camera, designed by Disney technicians in the mid-1930s, allowed animators to simultaneously film several levels of cels, producing a three-dimensional illusion of depth in the resulting cartoon. Natural History Museum of Los Angeles County, Seaver Center for Western History Research, Photograph GPF 8953.**

# MUSEUM ON THE MOVE

## NEW EXECUTIVE VICE PRESIDENT

Dr. James L. Powell, Natural History Museum President and Director, has announced the appointment of Dr. Karen L. Goldstein as Executive Vice President of the Museum Foundation.

Dr. Goldstein received her Ph.D. in French Literature from The University of Pennsylvania and an M.B.A. from the Wharton School at the university. For the past 3 years, she has been Executive Vice President for Finance and Administration at the Franklin Institute in Philadelphia, where she was responsible for establishing and maintaining budgets as well as increasing potential in many earned revenue areas. Prior to that, she had spent most of her career at The University of Pennsylvania, where she held a number of positions in administration.



At the Natural History Museum, Dr. Goldstein will be responsible for Finance, the Museum Stores, Planning, and Information Technology.

## WEILER FOUNDATION GRANTS

Two Natural History Museum scientists have received grants for their research projects from the Weiler Foundation of Palo Alto.

Dr. Karen Wise, an archaeologist who is Assistant Curator of Anthropology, received $14,000 for her work on the south coast of Peru, where she is leading an international team of specialists in the study of structures and artifacts dating from the Archaic Period (3,000 to 8,000 years ago). The goals of the research, now in its fourth year, are to trace the evolution of sedentary life, agriculture, and a specialized fishing tradition that formed the economic underpinnings for the development of Andean civilization. The Weiler gift will support excavation of a set of house platforms, layered one above another and occupied by successive generations of people during the Archaic Period, in an effort to pinpoint the time when the traditionally nomadic hunter-gatherer-fishers of this area began to reside in villages on a year-round basis.

Dr. Margaret Ann Hardin, Curator of Anthropology, has been granted $5,000 from the Weiler Foundation to complete her study of the late-twentieth century revival of traditions in Zuni pottery making. Hardin began her work in the late 1970s, when—after almost a century of diminished practice—Zuni pottery making began to undergo a renaissance. In the years since she first investigated the resurgence of this ancient and sophisticated art form, manufacture has increased and diversified, and new families of potters have emerged. The Weiler grant will underwrite documentation, through interviews and photographs, of the revival process and of the new significance of pottery making in the life of the Pueblo of Zuni.

## ADVENTURE FOR EDUCATORS

On November 2, the Natural History Museum hosted more than 200 elementary and secondary school teachers at a free evening viewing of the Times Mirror Hall of Native American Cultures. During this event, teachers participated in a variety of activities designed to enrich the classroom curriculum and demonstrate the potential of a museum visit.

Paul Apodaca, Curator of Native American Art at the Bowers Museum in Santa Ana, gave the keynote address, on growing up Indian in Los Angeles, and educators attended drop-in workshops on pottery techniques, musical instruments, natural foods, and California Indian life. A number of other museums, educational institutions, and organizations that promote Native American cultures were present to offer resources and discuss teacher interests.

The educators enjoyed foods donated by Trader Joe's, Starbuck Coffee, and Marie Callendar's, appropriately served against a background of North American mammals; they took home classroom study materials designed to complement the California social studies curriculum. This evening and the development of the curriculum materials were made possible by a $15,000 grant from the First Interstate Bank of California Foundation.

## NEW GUIDE TO CARIBBEAN ECHINODERMS

Dr. Gordon Hendler, Curator of Echinoderms, has finished work on a regional guide to a group of marine organisms that are among the most abundant creatures in the ocean. Hendler and three other internationally recognized experts (John E. Miller, David L. Pawson, and Porter M. Kier) have authored *Echinoderms of Florida and the Caribbean: Sea Stars, Sea Urchins, and Allies*, a 400-page volume on the identification and natural history of the sea stars, brittle stars, sea urchins, feather stars, and sea cucumbers of the Florida Keys, Bahama Islands, and Caribbean.

Echinoderms are fascinating, ancient in origin, and often brilliantly colored and

*continued on page 14*



**Adventure for Educators in the Exposition Park museum's Native American Hall featured presentations by Paul Apodaca of the Bowers Museum *(left)* and Barbara Drake and Mark Mendez of the Mother Earth Clan *(at right)*; the Natural History Museum's Curator of Anthropology, Dr. Margaret Ann Hardin, was responsible for the hall's concept and installation. Photograph by Marshall Armstead.**

# MUSEUM TRAVEL PROGRAM



## YOUR VIEW TO THE WORLD

### SPRING MIGRATION – EILAT, ISRAEL
**March 17 to 24, 1996**

Visit Eilat, on the beautiful shores of the Red Sea, during the spring bird migration. Expert and novice birders alike will be guided through the salt marshes, date palms, mountains, and desert in search of avian migrants. There will be ample time to snorkel on the coral reef, and optional extensions may be taken to Israel's historic sites, the Sinai Desert and Egypt, and Jordan.

■ $2,195 including airfare from Newark





### COSTA RICA
**April 30 to May 11, 1996**

Discover Costa Rica's natural riches, from majestic Arenal Volcano to the lush coastal forests of Manuel Antonio and Corcovado National Parks. Explore rainforests, cloudforests, islands, and enticing beaches on this land and sea voyage aboard the 60-passenger *Temptress Explorer*. See for yourself why Costa Rica is known as the wildlife sanctuary of the Americas.

■ $2,995 including airfare from Miami

### PERU • May 4 to 19, 1996

Dr. Karen Wise, Assistant Curator of Anthropology. will give travelers an insider's look at Peru, from colonial Lima to the soaring Andes. Our expedition will highlight the most important sites of Peru's rich archaeological heritage, including an overnight stay at Machu Picchu and visits to the north coast sites of Sipan and Tucume, as well as an overflight of Nazca.

■ $3,690 plus airfare



### GALAPAGOS AND ANDES
**May 10 to 22, 1996**

The Galapagos are a nature lover's dream come true. Join expert naturalists as we explore nine islands in this wonderful archipelago, stopping often to hike and snorkel. Our home at sea will be the well-appointed luxury yacht *Isabela II*. We will also visit historic Quito, the colorful Otovalo market, Cotopaxi National Park, and Pasachoa Preserve in the spectacular Andes Cordillera.

■ $4,985 plus airfare

### BOTSWANA • June 12 to 24, 1996

Explore Africa's last refuge, the beautiful and incomparable wilderness of Botswana's Okavango Delta. More than 1,100 species inhabit the varied ecosystems that make up the delta, and we will explore them by canoe and four-wheel drive and on foot. Our trip also includes time in Johannesburg and Pretoria and concludes at dramatic Victoria Falls, on the Zambezi River.

■ $4,495 including airfare from New York



**Photographs of the Galapagos courtesy of International Expeditions**

## FOR MORE INFORMATION

**please contact**
**Karen Hovanitz**
**Museum Travel Program**
**(213) 744-3350.**

# EXHIBITIONS AND SPECIAL EVENTS

Opening Exhibition

## ■ HARLEY LEGENDS

In 1920, just 17 years after building their first motorized bicycle, William Harley and the three Davidson brothers, William A., Arthur, and Walter, were heading the largest motorcycle company then in existence. Harley-Davidsons had been in police duty since 1907 and were making deliveries over the badly rutted rural routes of the U.S. Postal Service. Thousands of the bikes—many equipped with sidecar gun carriages—had been shipped overseas for use by the Army in the World War. And Harleys—which were stars on the international racing scene—were offered in countries around the world through a network of more than 2,000 dealers.

The early growth of the Milwaukee manufacturer was phenomenal, but Harley-Davidson's perseverance through the business and political upheavals of the twentieth century has been even more impressive. From the beginning, the company has been known for conservative design and rigorous engineering; Harleys epitomize simplicity, stability, and ruggedness, and their endurance is legendary. Through the years, Harley-Davidson has introduced sport models and middleweight bikes and even a scooter. But its reputation has remained with the thick tired, wide saddled, rock solid V-twin-engined classic; the low-slung silhouette of this cycle and its powerful roar seem to embody both the most traditional and most unconventional of American values.

An exhibition chronicling the 90-year history of the Harley-Davidson Motor Company is appearing at the Petersen Automotive Museum through spring 1996. On display is a rare collection of vintage, new, and custom Harleys on loan from collectors around the world, including several early models. Motorcycles representing the artistry of Arlen Ness, known as the king of after-market Harley-Davidson customizing, will be on view through mid-January. The exhibition gives insight into the peculiarly American success story of our sole remaining motorcyle manufacturer.

*The exhibition Harley Legends has been organized for the Petersen Automotive Museum by guest curator Frank Kaisler, Editor of* Hot Rod Bikes *and a Harley-Davidson enthusiast for more than 25 years. Special assistance was given by Robert E. Petersen and by Bruce Meyer, Chairman of the Petersen Automotive Museum's Checkered Flag 200 support group.*



BELOW

**A recent creation of Harley-Davidson customizer Arlen Ness features a stock wishbone frame with modified gas tank and rear fender and a 1974 Shovelhead engine. Collection of Arlen Ness. Photograph by Wesley Allison/PPC Photographic; courtesy of *Hot Rod Bikes*.**

## CONTINUING EXHIBITIONS

■ **Masters of the Ocean Realm: Whales, Dolphins, and Porpoises,** through January 14, Dart Gallery, Museum of Natural History, Exposition Park. The biology and natural history of the whales, dolphins, and porpoises are explored in the Natural History Museum's traveling exhibit, as are relationships between people and cetaceans. The interactive display modules emphasize the evolution of unique anatomical features and behavior that allow these mammals to thrive in their aquatic homes.

■ **Moths: Photographs by Kirby Wolfe,** extended through June 30, Ground Floor Hall Galleries, Museum of Natural History, Exposition Park. A series of stunning, full-color photographs of silk moth adults and caterpillars by entomologist Kirby Wolfe highlights some of the most spectacularly beautiful and grotesque of the night-flying creatures.

■ **The Tongass: Alaska's Magnificent Rain Forest,** through March 31, Rotunda, Museum of Natural History, Exposition Park. This exhibition of 42 color photographs taken in the largest of the U.S. national forests captures the beauty of the land and its wildlife and hints at the enormity of the resources to be found in this remote and pristine area of our country.

A related exhibit, **The Panatal: A Brazilian Rainforest,** is on view from through March 31 in the Director's Gallery of the Exposition Park museum.

■ **Vehicles of Expression: Photographs by Kathleen Estrada,** through February 11, Third Floor Galleries, Petersen Automotive Museum. This collection of black and white and color photographs of people with their cars explores the automobile as a reflection of personal style.

# PROGRAMS FOR MEMBERS AND VISITORS

## LECTURES AND SPECIAL EVENTS

### AMBASSADOR FOR THE SEA

**A Lecture by Sylvia Earle**

**Sunday, January 21,** 3:30 p.m., Jean Delacour Auditorium, Museum of Natural History, Exposition Park

**Sylvia A. Earle,** former chief scientist of the National Oceanographic and Atmospheric Association and a renowned marine biologist, has pioneered underwater observations of dolphins and whales and set new diving records while exploring unknown waters throughout the world. Combining the credentials of scientist, explorer, policy maker, conservationist, and founder of an ocean engineering firm, she is known worldwide as an effective ambassador for the sea. At this special lecture—and in her new book, *Sea Change* (Putnam, 1995)—she describes her adventures, the changes she has witnessed in the oceans over the last several decades, and the threat these changes pose to our continued survival. $7 members, $9 nonmembers, $5 students with I.D.



**Photograph copyright 1995, Al Giddings.**

**A slide-illustrated lecture**

### CHRISTIAN CYPRUS

**The Island of Aphrodite in Early Byzantine Times**

**Saturday, March 2,** 2:30 p.m., Jean Delacour Auditorium, Museum of Natural History, Exposition Park

The island of Cyprus has always been at the crossroads of culture. Join us as **Professor Timothy E. Gregory** of Ohio State University explores the history of early Christian Cyprus. The startlingly beautiful mosaics and other archaeological remains of the island's many churches shed light on the growth of Christianity as well as the nature of Christian worship and the evolution of the wealth and power of the Church. Dr. Gregory will also explore the collapse of Christian civilization in Cyprus and review important evidence about the coexistence of Christian and Muslim communities on the island. This lecture is offered in association with the Archaeological Institute of America/Los Angeles County Society. $7 members, $9 nonmembers, $5 students and teachers.

## ADULT WORKSHOPS & CLASSES

### THE ART OF SCRIMSHAW

**Thursdays, January 11, 18, and 25,** 6:30 to 9:30 p.m., Education Classroom, Museum of Natural History, Exposition Park

To pass long hours at sea, nineteenth-century sailors engraved on whale bone, ivory, or wood. This original American craft, known as *scrimshaw*, will be taught by **Joe Cocke,** Museum Model Maker with 30 years experience in scrimshaw techniques. We'll learn about the history of whaling while creating our own piece of scrimshaw art. No prior artistic experience is necessary. $65 members, $75 nonmembers.

### GARLIC POUCHES

**Saturday, February 10,** 9 a.m. to 4 p.m., Education Classroom, George C. Page Museum

Spend a creative day with master basketmaker **Judy Mulford** as we learn to use raffia and a simple crochet stitch to make a soft free-form hanging basket to hold garlic or small onions. Materials supplied. $45 members, $50 nonmembers.

### KITCHEN HERBS

**Saturday, February 17,** 1 to 5 p.m., Education Classroom, George C. Page Museum

Discover medicinal, edible, and decorative uses of kitchen herbs as you learn to wrap and tie herbal bundles using all natural, fresh materials. You will also make (and enjoy eating!) recipes with common herbs and discover how easy it is to start your own herb gatherer's garden. Lifetime gardener and landscape designer **Terre Ashmore** is your instructor. $50 members, $60 nonmembers.

### PINE NEEDLE BASKETRY

**Saturday, March 9,** 9 a.m. to 4 p.m., Education Classroom, George C. Page Museum

Fill your home with the fragrant scent of California pine. Join **Judy Mulford,** author of *Decorative Marshallese Baskets,* and learn to create coiled pine needle baskets. We'll learn about the art of teneriffe, and we'll complete our baskets with these delicate needle woven designs. Mulford welcomes participants of all experience levels. Fee includes all materials; $45 members, $50 nonmembers.

### ALL NATURAL EASTER EGG DYEING AND DECORATING

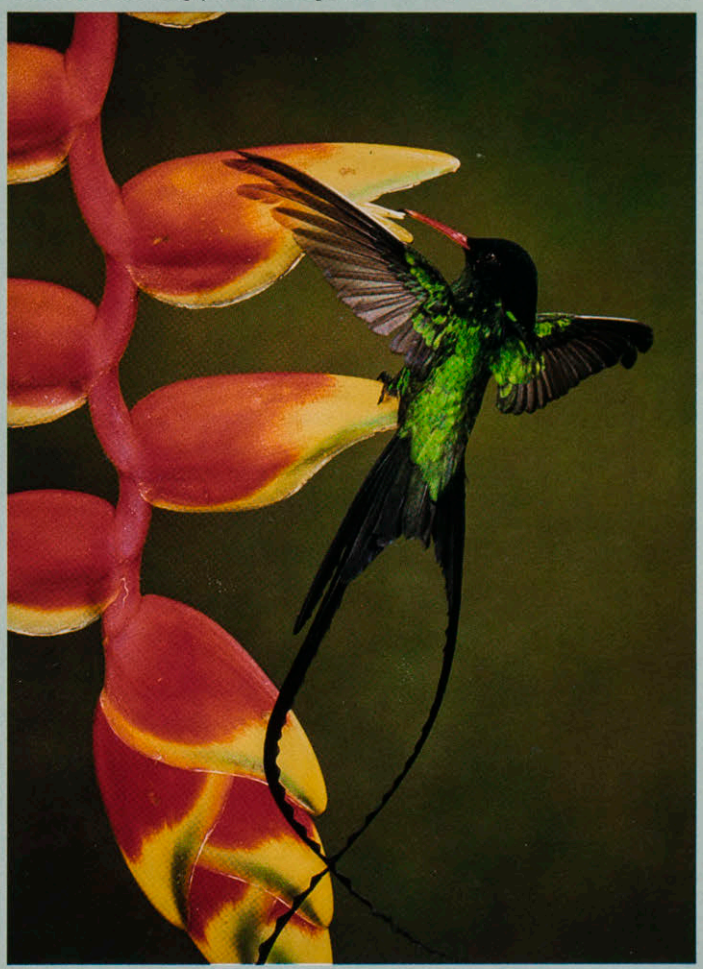
**Saturday, March 30,** 1 p.m. to 5 p.m., Education Classroom, George C. Page Museum

Add an original and decorative touch to your holiday by creating naturally beautiful Easter eggs with instructor **Terre Ashmore**. Ashmore will share her unique approach to decorating with natural materials and introduce us to all-natural dyeing and coloring techniques as we create our own original works of art. $45 members, $55 nonmembers.

## HUMMINGBIRDS: JEWELS IN THE SKY

**Sunday, February 4,** 2 p.m., Times Mirror Conference Room, Museum of Natural History, Exposition Park

Join world-renowned hummingbird experts **Esther and Robert Tyrrell** as they present their fascinating observations and startlingly beautiful photographs of the world's smallest birds. They will explain the biology and behavior of hummingbirds and tell us why the term "nature's helicopter" is so aptly suited to these amazing creatures. The Tyrrells have travelled over 80,000 miles in the past 18 years on their quest to photograph and learn about hummingbirds. Their photographs and experiences have been featured in *National Geographic Magazine* and are the subject of three books they have authored. After the lecture, the naturalists will answer questions and share techniques for attracting hummers to your own back yard. $7 members, $9 nonmembers, $5 students.



**Eastern Streamertail Hummingbird. Copyright 1990, Robert A. Tyrrell.**

## ADULT FIELD TRIPS

### An architectural walking tour

### ■ DOWNTOWN LOS ANGELES

**Saturday, January 20,** 9 a.m. to noon

Downtown Los Angeles is a kaleidoscope of architectural landmarks. Our trip begins in the historic Biltmore Hotel where we will learn its history and tour its magnificent kitchen. Representatives from the **Los Angeles Conservancy** will guide us through Pershing Square, the city's oldest public park, and lead us up the stairs to Bunker Hill. Then we'll ride the Redline to Union Station, hear a brief history of the station, and tour the famous Fred Harvey restaurant. $20 members, $25 nonmembers.

### ■ PELAGIC BIRDS AND MAMMALS

**Sunday, March 3,** 7 a.m. to 4 p.m.

Join museum naturalists aboard the Research Vessel *Vantuna* for an all-day pelagic expedition to observe the seabirds and marine mammals of the San Pedro Channel. Journeying near and beyond Santa Catalina Island, we will see birds usually found far offshore, such as shearwaters, petrels, and jaegers. We'll watch for gray whales making their way along the Pacific coastline of North America from the calving lagoons of Baja California to the summer feeding grounds of the Bering and Chukchi Seas; we may also see other species of marine mammals, such as minke whales, common dolphins, and California sea lions. Our naturalists will identify and discuss the natural history of the birds and mammals that we see. Please bring a bag lunch. $55 members; $65 nonmembers.

## CHILDREN'S CLASSES & WORKSHOPS

### ■ SCRIMSHAW, THE WHALER'S ART

**Saturday, January 27,** 10 a.m. to noon, Education Classroom, Museum of Natural History, Exposition Park. Ages 8 and up

Two hundred years ago, when sailors on whaling ships spent years at sea, many passed the time by carving and etching on whale teeth or bone to create artworks called *scrimshaw*. Learn about the history of whaling with Museum Model Maker **Joe Cocke**, and create a piece of scrimshaw to take home. $15 members, $20 nonmembers.

### ■ IN SEARCH OF MICROFOSSILS

**Saturday, February 10,** 10 a.m. to noon, Education Classroom, Museum of Natural History, Exposition Park. Ages 9 and up

Not all fossils are as big as the dinosaur bones you see in museums. Join us for an introduction to the world of microfossils with **Dr. Dave Whistler,** Curator of Vertebrate Paleontology. We'll sieve for fossils as tiny as mice teeth, washing our finds and using microscopes to determine what kinds of small animals lived in southern California millions of years ago. Our finds will be added to the museum's collections. $25 members, $35 nonmembers.

### ■ DIGGING FOR DINOSAURS

**Saturday, March 9,** 9 to 11 a.m., Education Classroom, Museum of Natural History, Exposition Park. Ages 4 to 7

Calling all dinosaur lovers! Join this exciting hands-on class about our prehistoric friends, the dinosaurs. We'll travel back in time to the Age of Reptiles, when dinosaurs roamed the earth, and discover fascinating facts about our favorite dinosaurs. Paleontologist **Mark Roeder** will guide us on our dino hunt. Materials fee $1; $20 members, $25 nonmembers.

### ■ ARTOPIA 101

**Saturdays and Sundays, through June 1996,** Third Floor Gallery, Petersen Automotive Museum

This free, ongoing art workshop is held in the Petersen Museum's On the Move Kid's Gallery, which is filled with car art by children from around the world. Youngsters of all ages are invited to create their own automobile art and add it to the gallery's exhibits. To learn the workshop's hours on the day you plan to visit, please call 213/964-6347.

## FAMILY FUNDAYS!

These hands-on family programs are **free** with museum admission for children ages 4 and older. They are held in the Ralph M. Parsons Discovery Center of the Exposition Park museum. Participation in some programs is limited, so please arrive early to reserve your space.

### ■ CELEBRATE THE CHINESE NEW YEAR!

**Saturday, January 20,** 1:30 p.m.

Welcome the Year of the Rat and discover the animals of the Chinese horoscope with artist **Alise Arato**. Light the way to a happy New Year by making your own Chinese paper lanterns to take home.

### ■ TRADITIONAL AFRICAN DOLL MAKING

**Saturday, February 17,** 1:30 p.m.

Celebrate Black History Month by creating African stilt dolls with artist **Akeke**. Learn about African traditions, and help the environment by making these festival dolls with recycled materials!

## FAMILY PROGRAMS

**An exclusive tour with the curator**

### ■ BREAKFAST WITH THE WHALES

**Saturday, January 13,** 9 to 11 a.m., Museum of Natural History, Exposition Park

Here is an opportunity for children ages 7 and up to tour the museum's new exhibit, Masters of the Ocean Realm, with its creator, Associate Curator **Dr. John Heyning**. We'll explore the biology, evolution, and natural history of cetaceans and discuss such topics as cetacean intelligence and the mystery of mass strandings. Our morning concludes with hands-on activities and a light breakfast. $25 child and adult pair, members, $30 child and adult pair, nonmembers; 50% fee for additional participants. Space is limited.

### ■ SWIM WITH THE SHARKS

**Saturday, March 9,** 2 to 4 p.m., Education Classroom, Museum of Natural History, Exposition Park. Ages 7 to 12

Are all sharks huge, ferocious animals with jaws filled with razor-sharp teeth? We will separate fact from fiction in this hands-on encounter with the ocean's most formidable inhabitant—the shark! With paleontologist **Mark Roeder,** we'll see and touch shark teeth and skin and even make our own "shark kit" to take home. Materials fee $5; $20 members, $25 nonmembers.

### ■ PANNING FOR GEMSTONES

**Saturday, March 9,** 11:30 a.m. to 1:30 p.m., North Lawn, Museum of Natural History, Exposition Park. Ages 7 to 12

Spend the afternoon panning for gemstones with paleontologist **Mark Roeder.** We'll screen and wash tourmalines, quartz crystals, several types of mica, and other minerals. We'll also discover how gemstones are formed and experiment with various rock and mineral samples. And you will take home all of the gemstones that you pan. Materials fee $6; $20 members, $25 nonmembers.

**Parents:** *Together, Swim With the Sharks and Panning for Gemstones provide a full day of fun and learning for your child. Students enrolled in both classes will be supervised between 1:30 and 2 p.m. and should bring a bag lunch or snack.*

**A family camping trip**

### ■ FOSSIL HUNTING AT RED ROCK CANYON

**Friday through Sunday, March 29 to 31**

Travel back in time 13 million years to explore the world of Miocene fossils on this family camping trip to Red Rock Canyon. We'll search for fossils, take a nature hike to the canyon's raptor breeding grounds, roast marshmallows, and relax in camp, all with Curator of Paleontology **Dr. Dave Whistler** and paleontologist and museum educator **Denny Diveley**. Parents do not have to cook because our trip leaders will prepare all three meals on Saturday as well as breakfast on Sunday. Arrive anytime after 3 p.m. on Friday. You provide transportation, camping gear, and dinner Friday night, and we will take care of the rest. $65 child, $95 adult, members; $75 child, $105 adult, nonmembers.

**Attention Parents and Teachers!**

## ■ MEMBERS' LOAN SERVICE

Remember to take advantage of the Members' Loan Service. Enliven your child's classroom, or your own science discussions, with taxidermied animals; marine life specimens; articulated skeletons; mineral and rock sets; insect mounts; and fossils, including specimens from the La Brea pits. You can also augment your social studies curriculum with artifacts and models from Native American cultures and various phases of American history, including new world exploration, the colonial period, and rancho and mission life. In addition, exciting examples of folk crafts from around the world are available.

The Members' Loan Service, located at the Museum of Natural History in Exposition Park, is *open Thursdays, 2:00 to 4:30 p.m., and Saturdays, 10 a.m. to 2 p.m.* For a $5 fee, three items may be borrowed for a 2-week period. For additional information, please call 213/744-3345.

## ■ VOLUNTEER OPPORTUNITIES ABOUND

The museums that make up the Natural History Museum of Los Angeles County offer a wide variety of volunteer opportunities. Prospective volunteers can be trained to be docents, curatorial helpers, or service council members or to work in outreach programs. If you are fascinated by the world of history or the natural sciences, the Natural History Museum family welcomes you. Please call the following numbers for further information.

■ William S. Hart Museum, Newhall: call Nancy McDonald at 805/254-4584.

■ George C. Page Museum of La Brea Discoveries, Miracle Mile area: call Denny Diveley at 213/857-6305. To volunteer in the Page Museum laboratory, call Shelley Cox, 213/857-6318.

■ Petersen Automotive Museum, Miracle Mile area: call Linda Murray at 213/964-6347.

■ Museum of Natural History, Exposition Park: call Isabel Rosenbaum at 213/744-3341.




## THE FLINTSTONES' DINO-SCOVERY

Touch a *Tyrannosaurus rex* tooth, measure up to *Mamenchisaurus*, and build a better dinosaur—these are some of the activities that you can sample in this new exhibit hosted by Fred Flintstone® and his friends. In celebration of the 35th anniversary of The Flintstones®, Hanna-Barbera, Inc., has teamed with the Natural History Museum to create colorful, interactive displays that enhance the museum's impressive array of skeletons of dinosaurs and other extinct animals. Your children and The Flintstones can discover the wonders of dinosaurs in this special exhibition, in the Governors' Gallery of the Museum of Natural History in Exposition Park through 1996.

## PUBLIC PROGRAMS RESERVATION FORM

■ **By telephone:** Use your MasterCard or VISA. Call the Education Division at 213/744-3534, weekdays, 8 a.m. to 4 p.m. Credit cards are accepted only with a minimum charge of $20.

■ **By mail:** Complete the form below, fill in the charge information or enclose a check payable to Museum Foundation, and return your order form and payment with a self-addressed, stamped envelope. The form may be duplicated. Mail to: ***Education Division, Natural History Museum, 900 Exposition Boulevard, Los Angeles, CA 90007***

■ **Important: Reservation, Waiting List and Refund Policies.** Preregistration is required for all classes, workshops, and field trips and is recommended for all other Education Division programs. Tickets to auditorium events may be purchased at the door; seating is not reserved. Reservations are not necessary for Family Fundays.

Applicants for filled programs will be placed on a waiting list and contacted if vacancies or rescheduling occur. If you have paid for a filled program, your payment will be refunded in 4-6 weeks.

Cancellations must be made one week prior to the first day of the event for the registrant to be eligible for a refund. Only if we are able to fill your space will the fee be refunded.

Dates and times of programs are subject to change, and class sizes are limited. Please call 213/744-3534 weekdays between 8 a.m. and 4 p.m. to verify program dates, times, and availability.

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Los Angeles, CA 90007

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| Program | Number of participants | Price | Total Price |
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As of October 31, 1995

# MUSEUM ON THE MOVE
## CONTINUED




intricately ornamented, with a five-part symmetry that is unique in the animal kingdom. Because they are attractive and often found along the seashore, the skeletons of some types—in particular, sea stars (starfish), sand dollars, and sea urchins—have graced curio collections for centuries. The living animals are critical components of the marine environment worldwide but are most diverse in tropical regions, particularly coral reefs.

The new book, which was published in September 1995 by Smithsonian Institution Press, is profusely illustrated with color and black-and-white photographs and should be useful to scuba divers, environmentalists, and students and invaluable to ecologists and other scientists. It is available through the Exposition Park museum book store.



**Jim and Nancy Welsh in the museum's exhibition on whales, dolphins, and porpoises, with Associate Curator of Mammalogy John Heyning *(center)*. Through the Smith-Welsh Foundation, Mr. and Mrs. Welsh made a generous donation to the museum in support of the traveling exhibition, which was curated by Dr. Heyning. Photograph by Christopher Barr.**

## MEMBERSHIP

### BEHIND THE SCENES AT THE NATURAL HISTORY MUSEUM

The Membership Office has recently completed its fall behind-the-scenes tour program for Naturalist and Explorer members. Curators, collections managers, and exhibitions experts led special tours of the museum's laboratories, collections areas, and exhibits design studios and then joined guests for private receptions following each tour. We are grateful to Joe Cocke (Exhibits), Kimball Garrett (Ornithology), Dr. John Heyning (Mammalogy), and Jeff Seigel (Ichthyology) for sharing their expertise with our members.

The Spring Tours Series will begin in March with more exciting events, including tours of the museum's Marine Mammal Laboratory and our Entomology headquarters. To upgrade your membership and receive invitations to these exclusive events, please call the Membership Office at 213/744-3426.

### SAVE THE DATE

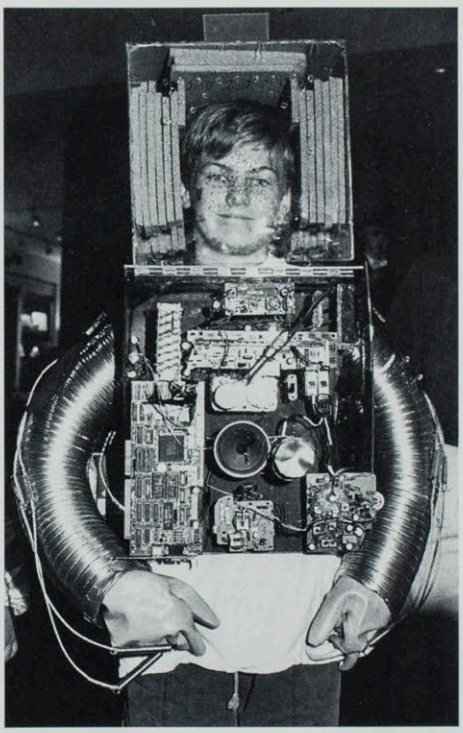
The Annual Members' Open House at the Museum of Natural History in Exposition Park will be held on Friday, April 19, 1996. The evening's theme will be Silver, in honor of the 25th anniversary of this popular event. Mark your calendars, and watch for more details in the March/April issue of TERRA.

### GIFT MEMBERSHIPS

Share the Natural History Museum with your friends! Among the many benefits of museum membership, your gift includes 1 year of unlimited free admission to the Museum of Natural History in Exposition Park, the Petersen Automotive Museum, the George C. Page Museum of La Brea Discoveries, and the William S. Hart Museum in Newhall.

If you would like more information, please call the Membership Office at 213/744-3426.







## A HALLOWEEN HAUNT AT THE PETERSEN AUTOMOTIVE MUSEUM

On October 27, more than 4,000 members and their guests enjoyed a haunting evening at the Petersen Automotive Museum and the George C. Page Museum of La Brea Discoveries.

The event provided a rare opportunity for visitors to explore the Petersen Museum's underground automobile vault. Additional activities included a presentation by staff sculptor David Robert Cellitti, who creates mannikins and other models for exhibitions, and opportunities to view Artopia, car art by children from around the world on display in the Petersen Museum's On the Move Kid's Gallery.

Marcus Eriksen brought the Natural History Museum's Traveling Insect Zoo to the party, and staff and volunteers from the Page Museum were on hand with fossils from the tar pits. Coo Coo the Clown entertained Page Museum guests with balloons and magic tricks.

Prizes were awarded for the best adult and child costumes seen at each museum, and visitors posed for hair-raising photos with Cellitti's "Frankenstein" and "Phantom of the Opera." Entertainment was provided by students of the Pacific Asia Museum's Philippine folk dance class and the Thai Community Art and Cultural Center.

LEFT

**More than 4,000 Natural History Museum members enjoyed a Halloween party at the Petersen Automotive Museum and the George C. Page Museum. Photographs by Dick Meier.**

**Membership in the Natural History Museum of Los Angeles County** provides free admission to all of its museums, including the Museum of Natural History in Exposition Park, the Petersen Automotive Museum, the George C. Page Museum of La Brea Discoveries, and the William S. Hart Museum in Newhall. In addition, you will receive year-round discounts in all of the museum gift shops; a year's subscription to TERRA; exclusive travel opportunities; reduced fees for classes and lectures for children and adults; and invitations to members-only events.

### DISCOVER A WORLD OF WONDER

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Please send me information about:

❑ Bequests ❑ Tax-advantage life income gifts

Please return this form to the Membership Office, Natural History Museum, 900 Exposition Boulevard, Los Angeles, CA, 90007

The Natural History Museum exists to advance knowledge and to enable people of all ages, backgrounds, and interests to understand and appreciate their natural and cultural heritage. The museum assembles, conserves, interprets, and holds in trust collections of irreplaceable objects from nature and human history. These collections reveal the history of the Earth and the evolution and diversity of life and culture. They sustain programs of research, exhibits, education, and publication.

The **Museum of Natural History,** Exposition Park, is located at 900 Exposition Boulevard, Los Angeles 90007. The **George C. Page Museum of La Brea Discoveries** is located at 5801 Wilshire Boulevard, Los Angeles 90036. The **Burbank Museum** is located at 555 North Third Street, Burbank 91502. The **Petersen Automotive Museum** is located at 6060 Wilshire Boulevard, at Fairfax Avenue, Los Angeles 90036.

For recorded information on museum hours, admission fees for the general public, and days when no admission is charged, please call:

| | |
|---|---|
| ■ Exposition Park Museum | 213/744-DINO |
| ■ Page Museum | 213/936-2230 |
| ■ Burbank Museum | 818/557-3562 |
| ■ Petersen Museum | 213/930-CARS |

Admission to these museums is always free to members.

The **William S. Hart Museum** is located at 24151 San Fernando Road, Hart Park, Newhall 91321. Admission is free. For information on museum hours, please call:

| | |
|---|---|
| ■ Hart Museum | 805/254-4584 |

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After you've seen the Petersen Automotive Museum's exhibit **HARLEY LEGENDS**, come to the Petersen Store to learn more about America's favorite motorcycle.

*The Harley-Davidson Motor Company, An Official Ninety-Year History.* A historical overview of an all-American motorcycle and the people who've built it, by David K. Wright. $24.95.

*The Classic Harley.* Text by Mark Williams, photographs by Garry Stuart. $15.98.

*Rolling Thunder, Ride to the Reunion.* This documentary video captures the excitement of the World Motorcycle Fair in Waukesha, Wisconsin. $14.95.




*The Big Book of Harley-Davidson.* The new revised edition of an official publication of Harley-Davidson, Inc., by Thomas C. Bolfert. $39.95.

*An American Legend: 90 Years of Harley-Davidson.* This full-length feature video gives a comprehensive, entertaining, and humorous look at the history of the Harley and the people and lifestyles associated with it. $24.95.

**LOCATIONS** — Natural History Museum Members receive special discounts at each store.

Petersen Automotive Museum
(213) 964-6328
Open 10am - 6pm

George C. Page Museum of La Brea Discoveries
(213) 857-6300
Open 10am - 5pm

Natural History Museums

Exposition Park
(213) 744-3434
Open 11am - 5pm

Burbank Media City Center
(818) 557-3551
Open 10am - 5pm